

UH421 cone crusher and screen unit in Action

Technical specification sheet



The UH421 is an integrated mobile cone crusher and triple deck screening system. Designed to function in closed circuit, it features the market leading Sandvik CH440 cone crusher which comes with a choice of mantles and settings making it suitable for a wide range of applications worldwide.

Features include:

- Can be used as a primary, secondary or tertiary crushing and screening unit.
- Fitted with ASRi – automatic setting regulation system as standard.
- On board intelligence ensures an optimal and trouble free operation.
- A foldable flap on each side can be used as a back wall for a loading ramp, and as protection against oversize stones falling from the tipping grizzly.
- Radio remote controlled tipping grid.
- Electric heating for feed hopper.
- Step less regulation of feed rate.
- Metal detector situated before crusher.
- Complete dust encapsulation that includes filters.
- Control box has a user friendly display that provides optimal control over the process.
- Transportation of the unit is in one piece, as all components remain on board with the exception of product conveyors.
- Air suspension triple axle bogie with ABS brakes and third axle self steering provides safe and stable transportation.
- Hydraulic supporting legs at the front end make connection with semi trailer easier.
- Emergency stop buttons are located throughout the machine.



Technical specifications

	UH421
Operation	
Height	5.6m / 18.4'
Width	3.0m / 9.8'
Length	19.0m / 62.3'
Transport	
Height	4.4m / 14.4'
Width	3.0m / 9.8'
Length	18.6m / 61' (excl. trailer)
Transport	
Max/min weight	53 / 39 mton / 58 / 43 ston
Feed station	
Feeder	SP0830
Volume	6 m ³
Motor	2 x 4 kW
Crusher	
Type	Sandvik cone crusher CH440
Drive	200 kW 4-pole, squirrel-cage with soft starter
Product screen	
Motor	SS1433 2 x 4 kW
Decks	3
Natural fines screen	
Motor	SS1013H 2 x 2.3 kW
Decks	3
Conveyors	
B3 crusher to prod.screen Width	1000mm / 39"
B3 crusher to prod.screen Motor	18,5 kW

	UH421
B4 screen to crusher Width	800mm / 31.5"
B4 screen to crusher Motor	2 x 7,5 kW
Feeder - prod.screen to return conveyor	SP0820, 2 x 1,34 kW
Power system	
All-electric, intended for connection to a main supply or a diesel generator set (not supplied)	
Supply voltage	400V / 50Hz, 3-phase A.C
Control voltage	230V / 50Hz, 1-phase A.C
Recommended genset capacity	>450 KVA
Hydraulic system	
Supporting legs and conveyors extensions	
Hydraulic power pack, 24V	
Running gear	
Type	King-pin 3.5" or 2"
Air suspension 3 axle bogie, with air-brakes and running lights	
12 tyres	11" x 22.5"
Third self-steering axle	
Performance	
Max.feed size	210mm / 8.3"
Capacity (up to)	300 mtph / 331 stph
No of products	2 + Natural fines

Options

Diesel heater for CH440 lubrication oil
 Transformer Trafo 7 KVA for extra power 3 x 10A, 1 x 16A
 Adaption Mines and quarries for UK
 Alternative feed hopper without tippable grizzly
 Trestle for free standing feed station
 Welded lifting lugs on the chassis for shipping
 Trestle for separate transport of feed station
 Alternative power connection without Cavotec quick connection package
 Quick-connection pack for power connection. Type Cavotec including 20m cable
 Cable set, own natural fines conveyor

Cable set, own product conveyor
 Walkway behind product screen
 Product conveyor B5 12m x 800mm
 Product conveyor B6 12m X 800 mm
 Belt scale for optional product conveyor 2008
 Belt scale
 Conveyor, 18.5m x 800mm, to connect removable feeder with the Roadmaster unit. Metal detector included
 Natural fines conveyor 9m x 500mm
 Licensing for higher speed transport (SWE only)

The units depicted show all options currently available, and the colour scheme reflects the eventual scheme to be used. Current models may differ from those featured in this brochure. Please contact Sandvik to clarify specification and options. The material in this brochure is of general application for information and guidance only, and no representation or warranty is made or given by the manufacturer that its products will be suitable for a customer's particular purpose and enquiry should always be made of the manufacturer to ensure such suitability. Whilst reasonable efforts have been made in the preparation of this document to ensure its accuracy, the manufacturer assumes no liability resulting from errors or omissions in this document, or from the use or interpretation of the information contained herein. The manufacturer reserves the right to make changes to the information in this brochure and the product design without reservation and without notification to users.

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